

It can be seen from the preceding description that an embeddable mounting device has been provided that is used in connection with a concrete block wall and that does not provide a gap between the concrete block wall and a steel mounting surface when in place; and in a further aspect of the invention a method of permanently mounting a fixture to a concrete block wall has been provided that does not require degrading the wall structure by forming a cavity within the preexisting wall.

It is noted that the embodiment of the embeddable mounting device and method described herein in detail for exemplary purposes are of course subject to many different variations in structure, design, application and methodology. Because many varying and different embodiments may be made within the scope of the inventive concept(s) herein taught, and because many modifications may be made in the embodiment herein detailed in accordance with the descriptive requirements of the law, it is to be understood that the details herein are to be interpreted as illustrative and not in a limiting sense.

What is claimed is:

1. A embeddable mounting device comprising:
 - a first rectangular metal plate member having a first inner surface, a first outer surface, a first length measuring between fifteen (15") and seventeen (17") inches, a first width measuring between seven (7") and nine (9") inches, and a first thickness;
 - a second rectangular metal plate member having a second inner surface, a second outer surface, a second length of a measurement equal to said first length, a second width of a measurement equal to said first width, and a second thickness; and
 - a pair of vertical spacer members secured between said first inner surface and said second inner surface in a manner to form at least one reinforcing bar and cement receiving cavity between said first and second metal plate members, in a manner to hold said first and second metal plate members in parallel relationship with each other such that when said first and second metal plate members simultaneously contact a planar surface said first and second metal plate members are both perpendicularly oriented to said planar surface, and in a manner such that said first and second outer surfaces are spaced apart a spacing distance measuring between seven (7") and eight (8") inches.
2. The embeddable mounting device of claim 1, wherein: said first length is between eight and one-half (8½") and eight and three-quarters (8¾") inches.
3. The embeddable mounting device of claim 1, wherein: said first width is between sixteen and one-half (16½") and seventeen (17") inches.
4. The embeddable mounting device of claim 3 wherein: said mounting device further includes a third vertical spacer member positioned between said first and second vertical spacer members to create a pair of reinforcing bar and cement receiving cavities that are

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alignable with said reinforcing bar and cement receiving cavities of conventional concrete blocks.]

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5. The embeddable mounting device of claim 3 wherein:
a plurality of vertical reinforcing bars are secured to said
mounting device in a manner such that, when said
mounting device is placed atop a first concrete block
having a pair of conventional reinforcing bar and
cement receiving cavities and below a second concrete
block having a pair of conventional reinforcing bar and
cement receiving cavities, a length of each of said
plurality of vertical reinforcing bars extends into at
least one of said reinforcing bar and cement receiving
cavities of each of said first and second cement blocks.

6. The embeddable mounting device of claim 5 wherein:
each of said plurality of vertical reinforcing bars is
connected in fixed relationship to said mounting
device.

7. The embeddable mounting device of claim 6 wherein:
each of said plurality of vertical reinforcing bars has four
bends formed therein in a manner to create a central bar
section in each of said plurality of vertical reinforcing
bars that is offset from two end sections of each of said
plurality of vertical reinforcing bars.

8. The embeddable mounting device of claim 1, wherein:
at least two threaded-connector receiving apertures are
provided through one of said first and second plate
members.

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9. The embeddable mounting device of claim 1, wherein:
said first length is between eight and one-half ($8\frac{1}{2}$ ") and
eight and three-quarters ($8\frac{3}{4}$ ") inches; and
said first width is between sixteen and one-half ($16\frac{1}{2}$ ")
and seventeen (17 ") inches.

171

10. The embeddable mounting device of claim 9 wherein:
said mounting device further includes a third vertical
spacer member positioned between said first and sec-
ond vertical spacer members to create a pair of rein-
forcing bar and cement receiving cavities that are
alignable with said reinforcing bar and cement receiv-
ing cavities of conventional concrete blocks.]

173

11. A method of permanently affixing a furnishing fixture
to a concrete block wall comprising the steps of:

a) providing at least one embeddable mounting device
comprising:

a first rectangular metal plate member having a first
inner surface, a first outer surface, a first length
measuring between fifteen (15") and seventeen (17")
inches, a first width measuring between seven (7")
and nine (9") inches, and a first thickness;

a second rectangular metal plate member having a
second inner surface, a second outer surface, a
second length of a measurement equal to said first
length, a second width of a measurement equal to
said first width, and a second thickness; and

a pair of vertical spacer members secured between said
first inner surface and said second inner surface in a
manner to form at least one reinforcing bar and
cement receiving cavity between said first and sec-
ond metal plate members, in a manner to hold said
first and second metal plate members in parallel
relationship with each other such that when said first
and second metal plate members simultaneously
contact a planar surface said first and second metal
plate members are both perpendicularly oriented to
said planar surface, and in a manner such that said
first and second outer surfaces are spaced apart a
spacing distance measuring between seven (7") and
eight (8") inches;

8

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- b) installing said mounting device into said concrete block wall in place of a conventional concrete block, said mounting device being placed into said concrete block wall in a manner such that said reinforcing bar receiving cavity of said mounting device is aligned with at least one reinforcing bar receiving cavity of a said concrete block;
 - c) providing at least one vertical reinforcing bar that is insertable through one of said reinforcing bar receiving cavities of said concrete block and said reinforcing bar and cement receiving cavity of said mounting device;
 - d) inserting said at least one vertical reinforcing bar into one of said reinforcing bar receiving cavities of said concrete block and said reinforcing bar and cement receiving cavity of said mounting device;
 - e) providing a cementing slurry;
 - f) pouring said cementing slurry into said reinforcing bar receiving cavities of said concrete block and said reinforcing bar and cement receiving cavity of said mounting device;
 - g) waiting a period of time sufficient to allow said cementing slurry to harden; and
 - h) permanently affixing a fixture to one of said plate members of said mounting device.
12. The method of claim 11 further including the steps of:
- i) providing a fixture mounting bracket; and
 - j) permanently securing said fixture mounting bracket between one of said plate members and said fixture.

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13. The method of claim 11 wherein:
said mounting device further includes a third vertical spacer member positioned between said first and second vertical spacer members to create a pair of reinforcing bar and cement receiving cavities that are alignable with said reinforcing bar and cement receiving cavities of conventional concrete blocks.

14. The method of claim 11 wherein:
said mounting device further includes a plurality of vertical reinforcing bars secured to said mounting device in a manner such that, when said mounting device is placed atop a first concrete block having a pair of conventional reinforcing bar and cement receiving cavities and below a second concrete block having a pair of conventional reinforcing bar and cement receiving cavities, a length of each of said plurality of vertical reinforcing bars extends into at least one of said reinforcing bar and cement receiving cavities of each of said first and second cement blocks.

15. The method of claim 14 wherein:
each of said plurality of vertical reinforcing bars is connected in fixed relationship to said mounting device.

16. The method of claim 15 wherein:
each of said plurality of vertical reinforcing bars has four bends formed therein in a manner to create a central bar section in each of said plurality of vertical reinforcing bars that is offset from two end sections of each of said plurality of vertical reinforcing bars.

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17. The method of claim 11 wherein:
said mounting device provided further includes:
a third vertical spacer member positioned between said first and second vertical spacer members to create a pair of reinforcing bar and cement receiving cavities that are alignable with said reinforcing bar and cement receiving cavities of conventional concrete blocks; and



a plurality of vertical reinforcing bars secured to said mounting device in a manner such that, when said mounting device is placed atop a first concrete block having a pair of conventional reinforcing bar and cement receiving cavities and below a second concrete block having a pair of conventional reinforcing bar and cement receiving cavities, a length each of said plurality of vertical reinforcing bars extend into at least one of said reinforcing bar and cement receiving cavities of each of said first and second

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